

**STANDARDS PRESENTATION
TO
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

Attachment No. 3

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PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Subchapter 7. General Industry Safety Orders
Group 13. Cranes and Other Hoisting Equipment
Article 91. Definitions

§4885. Definitions.

Crane. A machine for lifting or lowering a load and moving it horizontally, in which the hoisting mechanism is an integral part of the machine. It may be driven manually or by power and may be a fixed or a mobile machine, but does not include stackers, lift trucks, power shovels, backhoes, or excavators. Some of the common types of cranes are defined as follows:

(A) Boom-Type Mobile Crane...

(B) Cantilever Gantry Crane...

(C) Crawler Crane...

(D) Floor Operated Crane...

(E) Gantry Crane. A crane similar to an overhead traveling crane, except that the bridge for carrying the trolley or trolleys is rigidly supported on two or more movable legs running on fixed rails or other runway.

~~(F) Container Handling Yard Crane. Rubber tired gantry crane.~~

(F) Gantry Crane, Container-Handling, Rubber-Tired. A gantry crane, consisting of overhead girders (bridge) carrying a movable hoisting mechanism (trolley) with container-handling spreader assembly. The girders are mounted on rigid legs which run on rubber tires. The crane is used primarily to lift intermodal shipping containers. [Adapted from B30.24]

(G) ~~(F)~~ Hammerhead Crane...

(H) ~~(G)~~ Jib Crane...

(I) ~~(H)~~ Locomotive Crane...

(J) ~~(I)~~ Monorail Crane...

(K) ~~(J)~~ Motor Truck Crane...

(L) ~~(K)~~ Overhead Traveling or Bridge Crane...

(M) ~~(L)~~ Pillar Crane...

(N) (M) Pillar Jib Crane...

(O) ~~(N)~~ Polar Crane...

(P) ~~(O)~~ Portal Crane (Whirley Type)...

(Q) ~~(P)~~ Power Operated Crane...

(R) ~~(Q)~~ Pulpit-Operated Crane...

(S) ~~(R)~~ Remote-Operated Crane...

(T) ~~(S)~~ Standby Crane...

(U) ~~(T)~~ Semi-Gantry or Single Leg Crane...

(V) ~~(U)~~ Semi-Portal Crane...

(W) ~~(V)~~ Tower Crane...

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- (X) ~~(W)~~ Traveling Jib Crane...
(Y) ~~(X)~~ Wall Crane...
(Z) ~~(Y)~~ Wheel Mounted Crane...

Plate I. Types of Cranes, Figure 4-A:
Change title to read: "Container-Handling Rubber-Tired Gantry Crane"

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Subchapter 7. General Industry Safety Orders
Group 13. Cranes and Other Hoisting Equipment
Article 92. Cranes (Except Boom-Type Mobile Cranes)

§4906. Truck Wheel Guards and Railsweeps.

~~(c) Container handling, rubber tired, gantry cranes shall be guarded with wheel fenders, bumpers or skirt guards which shield each wheel to the front and rear extended to the lowest practicable level above ground. [Move existing section 4906(c) to new section 4906.1(a)]~~

4906.1 Container Handling Rubber-Tired Gantry Cranes. [New section]

- (a) Container-handling, rubber-tired, gantry cranes shall be guarded with wheel fenders, bumpers or skirt guards which shield each wheel to the front and rear extended to the lowest practicable level above ground. [Relocated verbatim from §4906(c)]
- (b) Non-essential personnel shall be prohibited on the ground within 25 feet of the crane when the crane is on standby or when it is engaged in container handling operations.
- (c) The automatic warning devices required by Section 4889(c) shall activate at least 3 seconds prior to the crane commencing movement in any direction and shall be audible from an unobstructed distance of 200 feet in any direction.
- (d) In addition to the automatic warning devices required by Section 4889(c), administrative safety procedures shall be established and used and shall include at least the following:
 - (1) The crane operator shall be in dedicated frequency radio communication with a spotter on the ground whenever movement of the crane would constitute a hazard to employees working in the path of movement.
 - (i) The spotter shall have a clear view of the proposed path of movement of the crane.
 - (ii) The spotter shall be in clear view of the operator and the crane operator shall obtain clearance from the spotter before moving the crane.

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(iii) The spotter shall not be engaged in any other duties while directing movement of the crane.

(2) Automatic means of detecting personnel in the path of the movement and stopping or preventing the crane from moving may be used in lieu of a spotter.

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